

NORTON MAGNETIC HEADS

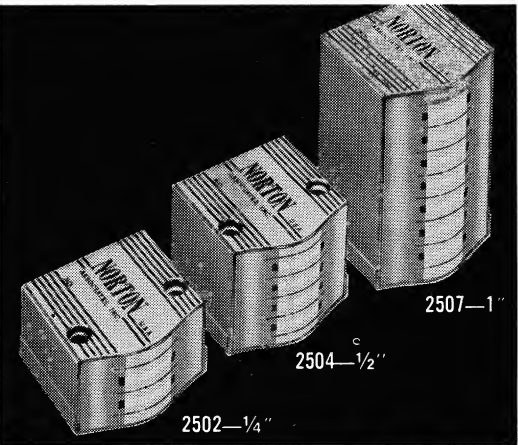
SERIES 2500

CROSSTALK — 60 DB

Track Width—.050 — Track Spacing—.140 ctoc

INDUCTANCE mh	MAXIMUM RATING ma pk	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	20	4.0	.50	1.0	10.	5.0
15	10	2.0	.25		5.0	
60	5	1.0	.12		2.5	
250	2.5	.5	.06		1.3	

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
2	1/4"	2502	4, 15, 60 or 250	R, R/P or P
3	1/2"	2503		
4	1/2"	2504		
7	1"	2507		



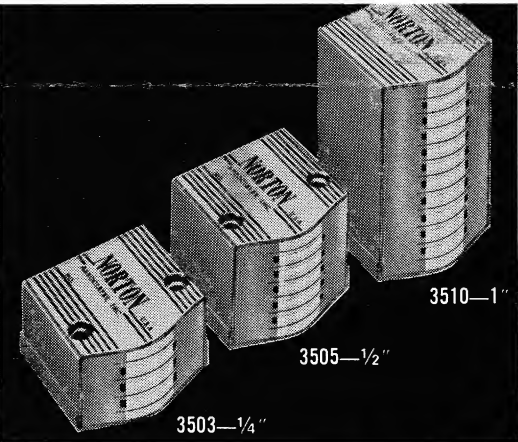
SERIES 3500

CROSSTALK — 60 DB

Track Width—.040 — Track Spacing—.100 ctoc

INDUCTANCE mh	MAXIMUM RATING ma pk	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	20	3.5	.45	0.9	9.0	4.5
15	10	1.7	.22		4.5	
60	5	.9	.11		2.3	
250	2.5	.45	.06		1.2	

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
3	1/4"	3503	4, 15, 60 or 250	R, R/P or P
5	1/2"	3505		
10	1"	3510		



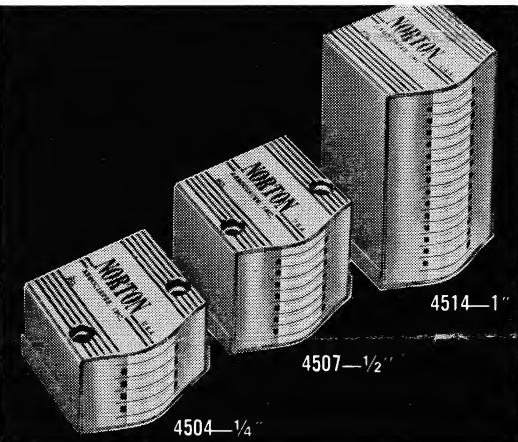
SERIES 4500

CROSSTALK — 50 DB

Track Width—.032 — Track Spacing—.070 ctoc

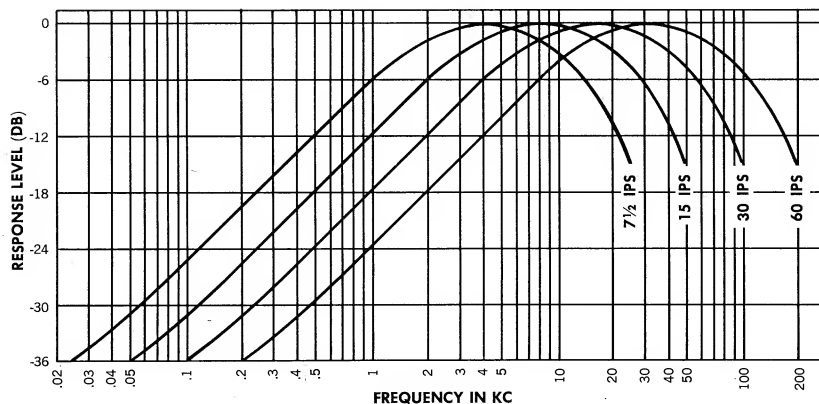
INDUCTANCE mh	MAXIMUM RATING ma pk	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	16	3.0	.4	0.8	8.0	4.0
15	8	1.5	.2		4.0	
60	4	.8	.1		2.0	
250	2	.4	.05		1.0	

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
4	1/4"	4504	4, 15, 60 or 250	R, R/P or P
7	1/2"	4507		
14	1"	4514		



FREQUENCY RESPONSE

Record and Playback Series 2500 through 7500

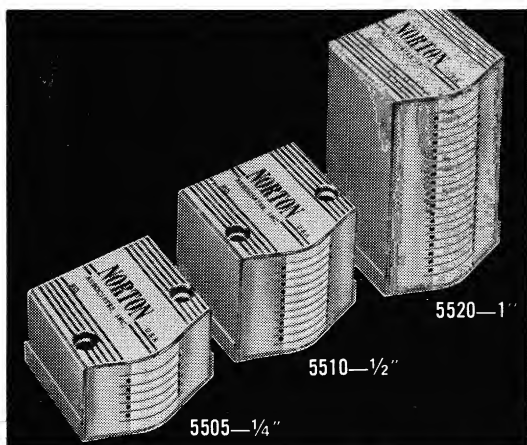


Inductance mh	Impedance @ 1 KC K	Recommended Max. Freq. KC	Response Level (DB) At Other Tape Speeds (IPS)			
			7 1/2	15	30	60
4	.03	400	-18	-12	-6	0*
15	.1	200	-12	-6	0*	+6
60	.4	100	-6	0*	+6	+12
250	1.6	60	0*	+6	+12	+18

*shown on chart (on 3M 459 tape or equal)

This chart and the Response/Frequency Characteristic shown, together with the record and play data specified for each Series above illustrates the exceptional performance capabilities of these miniature high performance magnetic heads. High output at short wave lengths together with a maximum contour effect deviation of ± 2 DB from the 6 DB/octave slope at long wave lengths provides a useful bandwidth of over 6 octaves at any tape speed.

Typical record and bias currents are specified for each Series. Any deviation in individual applications should not exceed the stated maximum current rating of the windings.



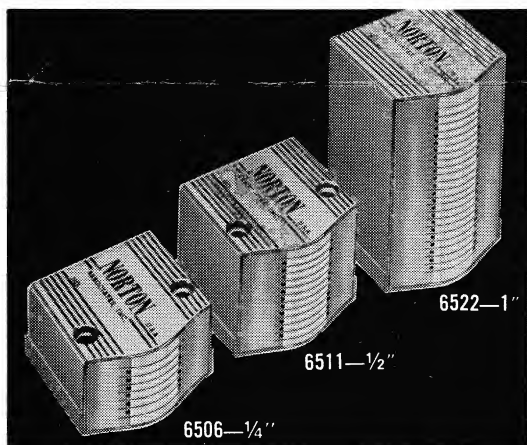
CROSSTALK—40 DB

SERIES 5500

Track Width—.025 — Track Spacing—.050 ctoc

INDUCTANCE mh	MAXIMUM RATING ma pk	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	14	2.8	.35	0.7	7.0	3.5
15	7	1.4	.18		3.5	
60	3.5	.7	.09		1.8	
250	2	.35	.045		.9	

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
5	1/4"	5505	4, 15, 60 or 250	R, R/P or P
10	1/2"	5510		
20	1"	5520		



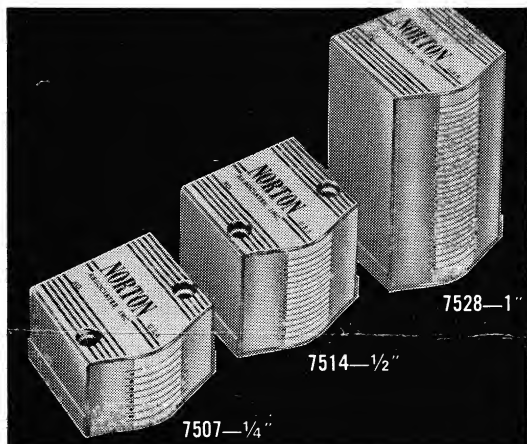
CROSSTALK—40 DB

SERIES 6500

Track Width—.018 — Track Spacing—.045 ctoc

INDUCTANCE mh	MAXIMUM RATING ma pk	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	12	2.5	.30	0.6	6.0	3.0
15	6	1.2	.15		3.0	
60	3	.6	.08		1.5	
250	2	.3	.04		.8	

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
6	1/4"	6506	4, 15, 60 or 250	R, R/P or P
11	1/2"	6511		
22	1"	6522		



CROSSTALK—40 DB

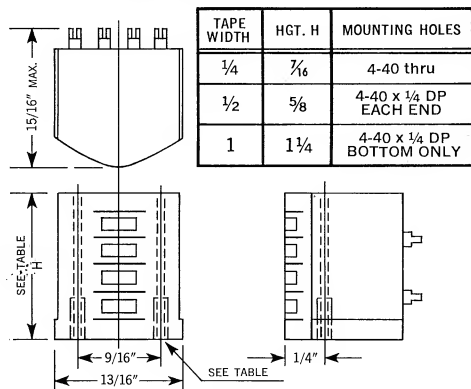
SERIES 7500

Track Width—.012 — Track Spacing: 7507 — .038 ctoc
7514, 7528 — .036 ctoc

INDUCTANCE mh	MAXIMUM RATING ma pk	TYPICAL OPERATION				
		RECORD WITH BIAS			RECORD W/O BIAS	
		BIAS ma rms	RECORD ma rms	PLAYBACK 0 DB mv rms	RECORD ma pk to pk	PLAYBACK 0 DB mv pk to pk
4	10	2.0	.25	0.5	5.0	2.5
15	5	1.0	.12		2.5	
60	2.5	.5	.06		1.2	
250	1.5	.25	.03		.6	

NUMBER OF TRACKS	TAPE WIDTH	CATALOG NUMBER		
		SERIES	INDUCTANCE	FUNCTION
7	1/4"	7507	4, 15, 60 or 250	R, R/P or P
14	1/2"	7514		
28	1"	7528		

OUTLINE & MOUNTING DIMENSIONS SERIES 2500 THRU 7500



STANDARD FEATURES include extremely low crosstalk ratings, rugged solid metal construction to withstand environmental extremes of temperature, humidity, shock and vibration and providing a hard, stable, low friction, long wear surface for the tape. The cores, shields and all metallic member are mechanically and electrically bonded together for effective electrostatic shielding and grounding of static charges. Precision finishing of the recording face to microinch tolerance insures intimate contact of the tape with every channel for uniformly excellent response independent of track location.

These six Series of Norton magnetic heads provide an exceptional freedom for the designer to specify the optimum parameters for his application. As an example, 7 track models are available for 1/4" tape (catalog #7507—), 1/2" tape (catalog #4507—) and 1" tape (catalog #2507—).

In addition, all Catalog Series #2500 through #7500 magnetic heads are provided with solder lug rear terminal boards carrying two terminals per track as standard.

To specify the complete catalog number for ordering purposes designate the Series number of the head you require, the inductance in mh and the function ie. Record only, Record/Play, or Play only, as in the following example: Catalog #4507-15P which is a 7 track, Series 4500 Play head for 1/2" tape with an inductance of 15 mh.

NORTON ASSOCIATES, INC.
240 OLD COUNTRY RD., HICKSVILLE, N. Y. • 516-OV 1-6181

NORTON ASSOCIATES, INC.

240 Old Country Road
Hicksville, N.Y. 11801

516 Overbrook 1-6181

Dear Mr. Nelson,

We believe you will find the attached new catalog data sheet on our Series 2500 thru 7500 Magnetic Heads of interest. More detailed application information on these units is given than heretofore published.

In addition, mounting adapters are available to fit most major transports and modifications to the standard units illustrated are possible to meet particular applications.

Call upon us to demonstrate our capabilities with your next requirement. Your interest in our products is very much appreciated.

Very truly yours,

NORTON ASSOCIATES, INC.

A handwritten signature in cursive script, reading "R. S. Norton".

R. S. Norton

RSN/hph